WHAT IS CLAIMED IS:

1. Alkali-free aluminoborosilicate glass having a coefficient of thermal expansion $\alpha_{20/300}$ of between 2.8 x $10^{-5}/K$ and 3.8 x $10^{-6}/K$, which has the following composition (in % by weight, based on oxide):

SiO_2		> 58 - 65
B_2O_3		> 6 - 10.5
Al_2O_3		> 14 - 25
MgO		0 - < 3
CaO		0 - 9
SrO		0.1 - 1.5
BaO		> 5 - 8.5
with SrO +	BaO	≤ 8.6
with MgO +	CaO + SrO + BaO	8 - 18
ZnO		0 - < 2

- 2. Aluminoborosilicate glass according to Claim 1, characterized in that it comprises at least 18% by weight, preferably more than 18% by weight, of $A1_20_3$.
- 3. Aluminoborosilicate glass according to Claim 1 or 2, characterized by the following composition (in % by weight, based on oxide):

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> 58 - 64.5
SiO<sub>2</sub>
                                         > 6 - 10.5
B_2O_3
                                         > 18 - 24
Al_2O_3
                                         0 - < 3
MqO
                                         1 - < 8
CaO
                                         0.1 - 1.5
SrO
                                         > 5 - 8
BaO
                                         < 8.5
with SrO + BaO
                                         8 - 18
with MgO + CaO + SrO + BaO
                                         0 - < 2
ZnO
```

- 4. Aluminoborosilicate glass according to at least one of Claims 1 to 3, characterized in that it comprises at least 20.5% by weight of Al_2O_3 .
- 5. Alkali-free aluminoborosilicate glass having a coefficient of thermal expansion $\alpha_{20/300}$ of between 2.8 x $10^{-6}/K$ and 3.6 x $10^{-6}/K$, which has the following composition (in % by weight, based on oxide):

\mathtt{SiO}_2	> 58 - 64.5
$B_2 O_3$	> 6 - 10.5
A1 ₂ 0 ₃	20.5 - 24
MgO	0 - < 3
CaO	2.5 - < 8
SrO	0.1 - 3.5
BaO	> 5 - 7 5
with SrO + BaO	≤ 8.6
with MgO + CaO + SrO + BaO	8 - 18
ZnO	0 - < 2

- 6. Aluminoborosilicate glass according to at least one of Claims 1 to 5, characterized in that it comprises at least 21.5% by weight of Al_2O_3 .
- 7. Aluminoborosilicate glass according to at least one of Claims 1 to 6, characterized in that it comprises more than 8% by weight of B_2O_3 .
- 8. Aluminoborosilicate glass according to at least one of Claims 1 to 7, characterized in that it comprises at least 0.1% by weight of ZnO.
- 9. Aluminoborosilicate glass according to at least one of Claims 1 to 8, characterized in that it additionally comprises:

ZrO ₂	0	-	2
\mathtt{TiO}_2	0	-	2
with ZrO ₂ + TiO ₂	0	-	2

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0 - 1.5
As_20_3
                                                   0 - 1.5
Sb_20_3
                                                   0 - 1.5
SnO_2
                                                   0 - 1.5
CeO<sub>2</sub>
                                                   0 - 1.5
C1
                                                   0 - 1.5
\mathbf{F}^{-}
                                                   0 - 1.5
so,2-
                                                   ≤ 1.5
with As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2
 + Cl^-+ F^- + SO_4^{2-}
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- 10. Aluminoborosilicate glass according to at least one of Claims 1 to 9, characterized in that it is free of arsenic oxide and antimony oxide, apart from unavoidable impurities, and that it can be produced in a float plant.
- 11. Aluminoborosilicate glass according to at least one of Claims 1 to 10, which has a coefficient of thermal expansion $\alpha_{20/300}$ of 2.8 x $10^{-6}/K$ 3.6 x $10^{-6}/K$, a glass transition temperature Tg of > 700°C and a density ρ of < 2.600 g/cm³.
- 12. Use of the aluminoborosilicate glass according to at least one of Claims 1 to 11 as substrate glass in display technology.
- 13. Use of the aluminoborosilicate glass according to at least one of Claims 1 to 11 as substrate glass in thin-film photovoltaics.